

Figure 1a

NCNCAGCAGGGTGCACAAATTGAAAGGAAATTTCGAGGGTGT
 GTGCCGACTAAGTGCAGATGACAATAAGATAACGGGATTATCAAC
 GGGGAAAACACGGAAATATGTTCCCGTAGAGAAATAATGGTCTCGTTAA
 TTAGTTATAATCTTAAACAATTAGTGGTCAATATAATAGACAAAAATGA
 CAAATTAGTGGACTCTTCGCCACCAACTCTCACAAAGACCAACTGTTT
 TGTGCCCTCCCTCCCTCAGTTGCTACGATTGCTGACCTCCTTCTCTA
 CTACCGTCCGCTCCAACACCATCATCATGTCGCAATTCTTAACCAGCATC
 CCCAAGGAATGCGTAGGCACCAACGGCCTCGGAGTCACAGCCGAATT
 CTCCTGCCCTCACCCCTCCTCGGCCACCTACCTCCCCCTCGAACGCT
 TCTACGATCCCGTCCGCTCACCTGGATGCAAGATCGTCCCATGATC
 CCCATCATGCGCTGCGCTACGTCGCTCATCGTCCCTGGGACGCC
 CTACATGAAGGACCGGCCGGCGTGGAGCTGGAGGAGTTGGCCGTT
 GGAATTGAGCCTGCTCTCTCGTGGATTGGCGCATCAGGACGGCT
 CCTCAGTTGATTACAACCTTGACGACGTATTGTTGAGGGATAATTGTG
 CGATGATCCGGCGGCGTTGATGGAGTGGATGACGGGACTTGGGTG
 AGTTGTTCATTTGAGCAAGTTCCGAGTTGCTTGACACTTCTTCATT
 GTCATTACAAGAAGCCGTCATCTCCTCATTGGTATCATCATATCAC
 CGTCCTCTTTACTGCTGGCATTCTATGTGACCACCTCTCCAGGGTC
 TCTTCTCGTCGTATGAACATACAGTGTCCACGGGTACATGTATGGGTAC
 TACTTCCTCATGGCGGTCAAATTCCGCTCCAAATGGTCAACCCATGTT
 CGTGACGTTCATGCAACTTCTCAAATGTTATTGGGTGGAGTTACCA
 TTGTTGGCATTATTATTACAGTAATCCGATTTGGGAAAGACATGTCAT
 ATCAGGAAGGAGAACAAATGTCGGCCTTGTATGTCATGACGGAGCTACTT
 TTACTTGGTGCACAATTCTTGTGGCGAGGTATTATAAGGTTAAGGTCA
 AGGGGGATGCGAAGAAGAAGAAGGGTGTAAAGTGAGAGATGGAATGAA
 ACAACCATCTTGTGGGGAAAGGGGTATTGGATAGCGGGTACCATTCAG
 TATCGTTGAGGTGCATTAAATGTTGAATGAACAAACTTGACGAGACGAGG
 GATTTGATCTTGTGACACGAGTGGGAGCATCTTCAATCCATTGGGAG
 AGAGGAGAAGTGGAGAGAAGTGTACTTGGGAGTTGAGAGAGTAAATT
 ATGTCATTGCTATGAAATTGCTGCCTCAAAACGCAACGTGCTAGCAAAC
 CTCGTTAACATGACAAAGTTATTCTTGTGATGGACATACCACGAT
 TGTATCATAAAAGAAAACCAATTCTATTGAGTTGAAACATCTAGAGTGC
 AGTATCGAGCAACAGCCCACGCCATCAGGATACACTAAACACACATTG
 CTTCATCTTACATTCTAACACACAGCATGCTGGCTCTTACCTCTTCAN
 NC

Figure 1a

ACGGGGGGTGTACGATTCGCTGACCTCCTTCTACTACCGTCGGCTCAACACCAT
 CATCATGCGCAATTCTAACCGCATCCCCAAGGAATGCGTAGGCACCAACGGCCTCGG
 AGTCCACTACGCCGAAATTCTCTGCCCTCACCTGGATGCAAGATCGTCCCATGATCCC
 CGAACGCTCTACGATCCCGTCCGACCCCTCACCTGGATGCAAGATCGTCCCATGATCCC
 CATCATGCGCTGCGTCCCTACGTCGTCATGTCCTGGGACGCCACATGAAGGA
 CCGGCGCGGTGGAGCTGGAGGAGGATTGGCCGTTGGAAATTGAGCTGCTCGCTCTT
 CTCGTGGATTGGCGCAATCAGGACGCTCTCAGTTGTTACAAACTTGACGACGTATT
 GTTGGGAGGATAATTGCGATGTCGGCGCTGTGATGGAGTGGATCGACGGGACT
 TTGGGAGGTTGTCATTGGCAAGTTCCCGAGTTGTTGACACTTCTTCATTGT
 CATTCAAGAAGCGCTCATCTTCTCCATTTGGTATCATCATATCACCGTCCCTCTTA
 CTGCTGGCATCTCATGTCGACACTTCTCCAGTGGTCTCTTCTCGTCGTATGAACTA
 CAGTGTCCACGCCGTATGTTGGGACTACTTCTCATGGCGTCAAATTCCGCTCCAA
 ATGGTTCAACCCCATGTTGACGTTCATGCAACTTCTCAAATGTTATTGGGGTGGG
 AGTTACCATGTCGCAATTATTACAGTAATCGGATTGGGAAAGACATGTCATAT
 CAGGAAGGAGAACAAATGTCGGCCTTGTGATGTCAGGGAGCTACTTGTTCG
 ACAAATTCTTGTGGCGAGGTATTATAAGGTTAAGGTCAAGGGGGATGCGAAGAAGA
 GGTTGTGAAAGTGGAGAGATGAAACAAACCATCTTGTGGGGAGGGGTATTGG
 ATAGCGGGTACCATCAGTATGTCGGAGGTGCAATTAAATGTTGAATGAACAAACTG
 AGACGAGGGATTGATCTCATGAAACGAGTGGGAGCATCTTCAATCCATTGGGAGAG
 AGGAGAAGTGGAGAGAAGTGTACTTGGGAGTTGAGAGAGTAAATTAAAGTCTTTG
 AAAAAAAAAAAAAAAAAAAAAA

Figure 2a

MSQFLTSIPKECVGTNGLVHYAEFSCLHPLLGATYLPFERFYDPVATLTWMQDRPMIPI
IACVAYVVLIVLGRAYMKDRPAWSWRRIAVWNLSLSLFWSWIGAIRTAPQLYYNLTTYSL
RDNLCDPAALYGSGSTGLWVQLFILSKFPELLDTFFIVIHKPLIFLHWYHHITVLLYC
WHSYVTTSPSGLFFFVMNYSVHAVMYGYYFLMAVKFRPKWFNPMPVTFMQLSQMFFIGGV
TIVAFYYYSNPILGKTCHIRKENVAAFVMYGSYFYLFAQFFVARYYKVVKGDAKKKV
V

TpELO2.1, amino acid sequence from cDNA

MSQFLTSIPKECVGTNGLVHYAEFSCLHPLLGATYLPFERFYDPVATLTWMQDRPMIPI
IACVAYVVLIVLGRAYMKDRPAWSWRRIAVWNLSLSLFWSWIGAIRTAPQLYYNLTTYSL
RDNLCDPAALYGSGSTGLWVQLFILSKFPELLDTFFIVIHKPLIFLHWYHHITVLLYC
WHSYVTTSPSGLFFFVMNYSVHAVMYGYYFLMAVKFRPKWFNPMPVTFMQLSQMFFIGGV
TIVAFYYYSNPILGKTCHIRKENVAAFVMYGSYFYLFAQFFVARYYKVVKGDAKKKV
V

Figure 1b

GTGGTCTCATGGCGTGGGTCGCTTGGTTCTCCTTCGCTGTGCTCCCTCT
CTCCTTCTCGCGGTGTGCGGTCTTCGTTTCAATTGCCTTCTTTCC
CATCAGGTTCCCTAGACGTGCGGGGCCGCTCTCTCTGGGTTGGGCT
TGCCCCTTGGTTGATATACAACAGTTACCTGGCAACCAGGACGCT
TACAACGCTGCAATGGATAAGATCGGTGCCCATCATCGATTGGTCTGA
TCCCGATGGCAAGTTCGCGATAGAGAGGTGAGCATGAATGTACACA
CCATGGTTGTCTCGGCATGACGGTGTCACTGGATGGTGTCACTGCATCTC
TCTGTTGCATCTATTCTAAACAACACATCTCTCACCTCGTTACCTTAC
TCAACAACTACCACACAAACCATCATCATCGTAGGACTGGTGGCTCTGCGA
CTTCCGTAGGCCATCACCATCGCTCTCATCTACATCGCCTCGTCATCC
TCGGTTCCGCCGTCAATCCCTCCCCGCAATGGATCCCTACCCCATC
AAATTCCCTACAACGTCTCCAAATCTCCTTGTGCCTACATGACTGT
CGAGGGGGATTGGCCTACCGCAATGGATATACCGTCAATGCCCTGCA
ATCATTCAATGTGAATGATCCTCCCGTGGCGAATCTCTGGTTGTT
TATATTCCAAGGTGTGGGACTTTGGGATACCATTTCATTGTGTTGGG
GAAGAAGTGGCGTCAATTATCTTCTGCATGTATACCATCACACCA
TCTTCTATTCTATTGGCTGAATGCCAATGCTTGACGATGGTGACATC
TTCCTTACCATCTGCTCAATGGATTCAATCCACACGGTGTACACGTA
TTACTTCATCTGTATGCATACCAAAGATCCAAAGACGGGCAAGAGTCTC
CTATATGGTGGAAAGTCGAGTTGACGGCGTTCACTGGTGTGCAATTCACT
ATCATGATGAGTCAGGCTACCTACCTTGTCTCCACGGGTGTGATAAGGT
GTCGCTCGTATCAGATTGTACTTTGTGACATTGAGTTGTTCT
TCCTTTTGCTCAGTTCTTGTCAATCATACATGGCACCCAAAAGAAG
AAGAGTGTAGATTGGAAAGGGGTGGCGACGAGCTTCTGTTGAG
GGTGGGTGGAAACGGAGTTGGTTTTGAAGCATCTGCAATATTGCA
GGACTGTTGCTGTGAGAATAGCTATGGAGTAAAGGTGGGGGGGGGG
TCATGGCGGACAGGCATGCCAACGATACTAAGGAATGTTCAACATG
TGTGATACTTTATTGTAAGGTACTGTTGGGAAATTGAGAGGGTACTG
AAAGGAGAGATGAGTGTCTGTCACCGCTGGGTTAGTTGTTACTTCC
CTCGTTCTTCAGCTATAAGTCTTGTGAGGAGTTAACGACTGA
CACCAATTACGTTGAACAACGCAACAATTAGCGTTGAGCCGACA
GACAAAGAGGTTTGTAGATTGTATCCCTGGCGAACGTTAACGTACAGG
TCCTTCATTCAACGAAACATAATCCATGGATGCATCTGTGCCAAC
CTTCAAAACGTCGCTCCCACTTGAGAAAACCACTATTACGAGTT
TCAGGTGCTGACCGGCAAAACAATTGAATCAGCAGCAAAGCCCACA
AAGCACTTCGCGATGAGGACCAACAGGAAGAGACGCTCACAC
TTCGGACGAGCCCCACGAGCGCGNGTGG

Figure 2b

DWWLCDRSAITIALIYIAFVILGSAMQSLPAMDYPPIKFLYNVSQIFLCAYMTVEAGF
LAYRNGYTVMPCNHFNVNDPPVANLLWLFYISKVWDFWDTIFIVLGKKWRQLSFLH
TTIFLFYWLNAVLYDGDIFLTILLNGFIHTVMYTYFICMHTKDPKTGKSLPI
TAFQLLQFTIMMSQATYLVFHGCDKVSLRITIVYFVYILSLFFLFAQF
VQSYMAPKKKK
SA

Figure 1c

AAAAAAAAAAAAAGANAGGAAATGTCGCACAACGGCAGCTGCAGCTTCATG
CCTGCAGGTCGACTCTAGAGGATCCCCGTGTTGTCATGTGGCGCAAGTGCTGCTCAAAT
GGGTGGACGGTGTATGCGATTGATGGATGCCGTGATGAATAGAGACCATCCATTATGGAA
AGTAGAAGTTGGTTGGGCGCGTGCATAGTGGGAGCTCGTATGCCGTGTTGCTCAT
TATTGTGATAAGTATTGGAGTTCTTGATACGTATTTATGGTGTGAGGGGGAAAATG
GACCAGGTGAGTTGACGAGTTGCTGTTAGTGTGTTAGATGGTACTGGTGAAGTTGG
TGACAGTGTGTGGGTGGCGTGGATATGGATATGGAGAAGGTACCAATTGGTGGAA
GGAACAATGAGACACATCCTGCGCACAGTGTCCAGAGAGACGAATCTGCAACGATTCAA
GATCATTAAAGAGTCATCAGCTACGCAAGAAGAATGGTAAATGATACTGTTCAGTTTC
AAAAGTTGGCATGATACTACTCAGCTTGAAAGTGCATCGGTCTGCTCAGGGAACGGGAA
GGCTTCACCAACAACGTTACCAATCCACATCTCACGCTTCCACCTCATCTACAAAAAC
AAAAAAACAGGTCTCCCTCCACATCTACCACACGACCATAGCGTGGGCATGGT
GATGCCCTCCGCTCTCCCCGGCGAGACATTACTTCGGGCACTCCTCAACTCCAT
CATCCACGTCTCATGTATTCTACTACGCCCTGCCCCTACTCAAGGTCAAGTGTCCATG
GAAACGATACTTGACTCAAGCTCAATTATTGCAATTCAACAGTGTGGTGTGTTACGGG
GTGTACGGTTATACTCATTACTATCATACGAAGCATGGAGGGATGAGACACAGCTAG
TTAGGAACGTATTATTCTGTTGAGGTGCAGGTGTTGAGATGGTTAGTTGTTGT
ACTCTTTCATCTTATAAACGATCCTATTGAAAGAAGAACAGTCAGGAGGAAGGA
TAGCAAGAAGAATGATGATGGAAATAATGAGGATCAATGTCACAAGGCTATGAAGGATAT
ATCGGAGGGTGCAGGGAGGTGTGGGCACTGCAGCGAAGGATGCTGGAAAGTTGGTGC
TACGGCGAGTAAGGTGTAAAGAGGAAGGGAACTCGTGTACTGGTGCATGTAGATAAA
GAGGTTGAAGAGAGATGAAGGAAACTCTCATGATGGTGGTCAAGTTCATCAACATTA
ACTGTATGAATCAAGATAAAGGTGGTGGACAAGGATGTCTGGAAATACGGCATGAATAG
GAGAACAGTTGCTAATGATTCTAGAGAATGTACATTCAAGACTCGTGTATAAAGACGAT
ACTCCGGGATCGTACGTACCGTTGAAAGTAGGCCATGCTCAAGACCGTGATATACTGA
GTGCGCCGATCTACTTGAAGCCATCCTTACTGTGCGGGCATGAAACAAGAACATCCC
GACNGG

Figure 2c

MWRKCCSNGWTVYAIIDAVMRDHPFIGRSLSVGAALHSGSSYAVVVHYCDKYLEFFDTYF
MVLRGKMDQVSFLHIYHHTTIAWAWWIALRFSPGGDIYFGALNSIIHVLMYSYYALALLK
VSCPWKRYLTQAQLLQFTSVVVTGCTGYTHYYHTKGADETQPSLGTYYFCCGVQVFEMV
SLFVLFSIFYKRSYSKKNKSGGKDSKKNDGNNEDQCHKAMKDISEGAKEVVGHAAKDAGK
LVATASKAVRKGRVTGAM

Figure 3A

ACGGCGGTGTCACGCCGCTTCCAGCGGAGCCGCTGCTCCGCCCGAAGTCTCTAGGCATGCCGCCCTCGGCCCGAGCGAGGGCGGC
GTGGCGGAGCTCGCGCGGCCGAGGTGCCCTCGTAACCGCGAAGCGGTGGATGAGCGCCCCGACCTCACCATCGTCGGCGATGCCGT
CTACGACGCCAACGGCCTCCGTGACGAGCACCCGGTCGGCGCCACTTGTGACCTCTTGCGGGCGCGACCCGACCGAGGGCGTTCA
TGGAGTACCAACCGCGGAGCTGGCCCAAGGCGCGGATGAGCAAGTCTCTCGTGGGCTCGCTCGACGCCCTCCGAGAAGCCGACCGAGGCC
GACAGTGCTAACCTCCGGCTGTGCGCGAGGTGAACGCCCTGCTGCCAAAGGGGAGCGGCGGCTTGCGCCGCCCTCTATTGGCTCAA
GGCGGCCGCCCTGGTGGCCGCCGCTGTGAGGGGTATAATGCTGTGCGGGCAAGACGCCCTCCCTCTCGTCTTGTCTCGGCC
TCGCTTTGGTGGATCGGCTCAACATCCAGCACGAGCGAACACGGCGCGCTCTCGGCCACTCGGTGATCAACTACTGCCCTGGG
TACCGCGAGGACTGGATCGCGGCAACATGGTGTCTGGCTGAGGAGCACGTGGTGTGATGCAACACCTGCAACCAACGACGGTGCACGC
CGACCCGGACAGAAGGCCACGGCGTGTGCGGCTCAAGCCAACGGCGGCTGGATGCCGTGGCATGCGCTCAAACAGCTTAACTTC
TGCCCGGCGAGGGGATGTAACGCTTTAAGCTGCTTCTCGACGCGCTCGAGCTGCTCGCGTGGGATGGGAGGGCGAGAAGATCTCG
CCCTCGCGCCGCCCTGTTGCAACAGCGTGGCGTCAAGCTGGCTTCTGGCGCGCTTCGCGCTGCCCTCTGGCTGCAAGCC
GACGGTGCACACGGCGCTGTGCATCTGCGCGACGGTGTGCAACGGGCTCCTCTACCTCGCCCTTCTTCTTCACTCTCGCAACACTTGG
ACGGCGTGGGTAGTGTGGGCCCAAGGGCAGCTTGCGCGCTCTGCAACACCTTCTGCAAGCGGGCAGGTGAGACGAGTTGCAATGTGGGC
GGCTACTGGCTGGCGTGTCAATGGAGGGCTCAACTTCCAGATCGAGCACCATTTTCCCGGGCTGCAACATTGTACTACGCGCA
GATTGCCCACTGGTGCACGACATCGAGAAGCTGGCTTCAAGTACAGGCACCTCCCAAGGTGGGCTCCAACATTGTCGTCATGCA
TGAGCACATGGCAAGATGGCACTCGCCAGGAGCTGAGAAGGGCGCAAGGCCAGTGAGCTGCCGCCCTACCCCTGCCCTGCGC
TAGCCAGCAACGGGTGCCAGCGAGGCCCTTCCATCCGAGGCCCTTCTCCCTCACCCCTGCCATGTCAGCGCACTGACTGA
GACGTGCCGTGCCGTGGCGCTCCGTGCCAGCACTGAGAGGGCTGCAATGCCGCCAGCGCGCTCACGCCGCTTTGGTCTTAAA
AAAAAAAAAAAAAAA

Figure 3B

MPPSAASEGG VABELRAAEVA SYTRKAVDER PDLTIVGDAV YDAKAFRDEH PVGAHFVSLF
GGRDATEAFM EYHRRRTWPKA RMSKFVGSL DASEKPTQAD SAYLRLCAEV NALLPKGSGG
FAPPSSYWLKA AALVVAAVSI EGYMILLRGKT LLLSVFLGLV FAWIGLNIQH DANHGALSRH
SVINYCLGYA QDWIGGNMVL WLQEHHVMHH LHTNDVDADP DQKAHGVLRL KPTDGWMPWH
ALQQLYILPG EAMYAFKLIF LDALELLAWR WEGEKISPLA RALFAPAVAC KLGFWARFVA
LPLWLQPTVH TALCICATVC TGSFYLAFFF FISHNFDGVG SVGPKGSLPR SATFVQRQVE
TSSNVGGYWL GVLNGGLNFQ IEHHLFPRRH HSYYAQIAPV VRTHIEKLGF KYRHFPPTVGS
NLSSMLQHMG KMGTRPGAEK GGKAE

Figure 4a

GCACGAGGGTGTGCTACCTGCTGTACGTCTCCCTCGGCTCGATGTACAT
CTTCTGCAACTTGCCTGTCGCACACGCACCTGCCATCGTGAGGCCG
ACCAGCAGGCCACCTGGTTGAGTACTCGGCCAACACACGACCAACTGC
GCGCCCTCGTGGTGGCGACTGGTGGATGCTTACCTCAACTACCAGAT
CGAGCATCATCTGTTCCCGTCCATGCCAATTCCGCCACCCGACGATCG
CGCCGCGCGTCAAGGCGCTTTCGAGAAGCACGGGCTGCACTATGACGTG
CGCGGCTACTTGAGGCGATGGCGACACGTTCATGAACCTTGACAAGGT
CGGCAACGCGCACGAGCACAAACCATTAGGCCGTAGCCGTTGGAAAGAGG
CCTCCTGCATACGCCCGACGCCGTGGCGCGCGCGCGTGCACGGGAGC
ACAAAGTGAATGGATGGACCTTGGCGACGCCGACGGCCAAGGAGTGGTTG
TCTCTGTCGTCGCCAGGGCCCAGGAGCCCAGGGCAGGGTTGCAGAGCTT
GGCGCGATTGGAGGCAGGGCGGGCGCGTCGGCGTTCGCGAGTCTGGCG
AGGCCTCTGCGAGCTCTGCACGACTGCCAGAGCGTGCACGGC
GCGAGTTCCAAAAAAAAAAAAAAA

Figure 4b

ARGCCYLLVSLGSMYIFCNFAVSHTHLPIVEADQHAT
WVEYSANHTNCAPSWWCDWWMSYLNQIEHHLFPS
MPQFRHPTIAPRVKALFEKHGLHYDVRGYFEAMADTF
MNLDKVGNNAHEHNH

Figure 5a

GCACGAGGCCTTCGGCTGGCGCTCGACGACGCCAAGTATGA
CAAGGGCGCGTCGGCCCCGGCTTCCGTACAACCGCGTCGCTTCTCGT
CGGTGCAGGCCTGCTCGCGGTGCGCATGATGGTCGCCGGCTCC
GCGCCCCCTCTCCGCCGACGTGAGAAGTTGTCAATCGTCTAACGC
GCCGCTTCGCCAAGGCTACGGCCTCACCGAGACGTGCGCGGACGACGC
TCTGCGCGCTGCACGACAACACGCCGTCGAAGTTGGCCGCCGAGGAG
TCGGCGTGCATCACGCTGCGCAGTGGAGGAGGGAACTACCGCAACCG
CGACGCCAACGACCCGGCATCGGGATGCGGCGCGAGATCCTGATCG
GTGGGCCCCGCGTCTGCCTCGGCTACTACGTGAACGAGCGCGGCCGAC
GCGGACGTGGTGAAGCGAACGCGGAGGACTTGTGACGATCACGGCAT
GCGCTTCTCTGCTCGGGCGACATCGGCCAGATCACGCCAGCGCTGCG
TGCAGATTATCGACCGGAAGAAGGACCTCGTCAAGCTGCAGCAGGGCGAG
TACGTGCGCTCTCCAAGGTGGAGAACGCGCTCAAGAACACTCGTGTACAC
GCAGATCCCCTACGTCTACGCGCTCTCATCCAAGAGACTACTGCATCGCG
TCCTCTGCCCGCAGCACGCCGATCCGCCAGCTGCCGCCCGCTGCG
ATCAGCGCAAGGAGCTTCCGAGCTGTGCGCGCACCGCAGATCGTGC
GCCCGTGCTCAAGGACCTGCAAGGCCAGTGAAGGCCAAGCTCGCG
GCTTCGAGACGCCAGCAAGCTCATCCTCGTGTGCGACGAGTGGACCGTT
GAGAATGACATGCTACCACGACGATGAAGATCAAGCGCAAGCCAATCGC
TGACCGGCACGCGAGCGAGATCAAGGCCATTACGTCTGAGCCGCC
TTTGTACAACCTCGAGAGCGCCACTGTCTTGATGGCGCGCGTGT
TGTGCAGGCCGTGGCATTGACCGCGCGCTTGACCGCAAGGCAGGCGCA
AGGCGCGGGAGGGATTGCTGGGATGGCGGCTGCCAGTTGCTGAGCAG
AAGGCAGTCTCCGGCTCTGACAGGTGGCGCCGTTGTGAGAATGTTCG
CAGCCCCCTCCCCCTCGGGCGCTGCCATTGGGGCAGCGCTCGCACATG
TGCTGCGCTCCGCAGCCGACGCCACGCCACCAACGCGTGTGCC
TCACGCCGCCGCCGTGGGAACGACCGTTGCCCTCGCAC

Figure 5b

ARGLFWALDDALAKYDKGGVPGFLYNAAVFSSVQALLG
GRVRMMVAGSAPLSADVQKFVQSCFNAPLRQGYLTETCA
ATTLCALHDNTPSQVGPPQESACITLDWEEGNYRNRDAND
PAIGMRRGEILIGGPNAVCLGYYVNERAPDADVVKRNAEDFV
TINGMRRFCSGDIGQITPSGCVQIIDRKDLVKLQQGEYVAL
SKVENALKNSSYTQIPYVYALSSKSYCIALLCPQHAAIRQLA
ASLQISGKELSELCAHPQIVAAVLKDLQAQCKAAKLAGFETP
SKLILVSDEWTVENDMLTTCMKIKRKPPIADRHA
SEIKAVYV

Figure 6A

ACTGGGTGTACACAGCATGGCGGCTCGCCGGTTGACGCCCTCGTCGTAGCGCGTTCAC
GGCGTTCTGCAGATCGGCGTGTGGCGCTCACGCCGTGGCATTGCGTGGGCCCTCGC
GTTCCACTGGAAGGTGACGCTGCCGTGCTGCCCTTATCTCGCGTGTACCTCGACGG
CGCCGAGGTGCGCGTCAAGCGCGTGC CGCGTGGCGCGTTCTCCCGCATTTTGCT
GTTCACGTTCATGCGCAGGGTCTACCGCAGCGCGTACGTGCCAGCTGCCCTCGAGGC
CGAGGAGCAGATCATCCTAGCGCTGCATCCGACGGCTCGATGGCGGACTACCGCGCGAT
CCTCGACGGCCAGCTGCTCGACCTACTGCCCGCGTGC CGGGCAAGATGCCTGGCTCGC
GGCGAGCGTGCCTTCGGCTCCCATCGTGC CGAGCTCACCTTGACCGGCTGCAT
CGACGCGCGCCGCTGGTTGCGAGAGTGCCTGCGTGGCGGCTACTCAGTCGGCGTACT
GCCCGGGCGCGAGCAGGAGCAGCTGCGCACCGCCTACGGCGCGAGTCGGTATATTGCG
CAAGCGCTTGGCTCGTCAAGCTTGCCTCCGCTCGCGTGC CGCTCGCTGGTA
CGTGTTCGGGTGCGTCGACCTGTACCAACTTATCCCTGCTCTCTCGCGCGAGTG
GCTCGTGCCTCTCGCGTGTGCCTGCCGTGTGCTTGGAGCGTGGCGTGGCGCCAT
GGCGCCGCTTGCCTGCGCTCAACGTGATCGGCCGGCGATCAAGCTGCCGCGCAA
CCCTGAGCCGACCGATGAGGACGTCGCGCGCGCTCGACCAGTACATCGCGCGCTGCG
CGCGCTCTTGACGAGAACAAAGGCGCGCTTGGCTATGCCGACCGCGAGCTGGAGGTGT
CTGATTGTGAAGAAGTGTCAAGGTCGGCGTCAGCAGGCGCACCGCGACCAAGCCA
CTCACGTCTTGTACCGCTGAACCGCGTGAACGATGCCGTTGCGACACGCTGAAGATGGC
CAGAAAAAAAAAAAAAA

Figure 6B

MAARAVDALV VSAFTAFVQI GVWALTPVGI AWALAFHWKV TLPLLALYLA SYLDGAEVRV
KRVRAWPAFS RHFWLFTFMR RVYRQRVHVP AGLEAEEQII LALHPHGSMA DYRAILDGQL
LDLLPALRGK MRWLAASVLF RLPIVRETLT WTGCIDARRS VAESALRGGY SVGVLPGGEQ
EQLRTRYGRE SVYLRKRGF VKLALRGVP LVPGYVFGCV DLYHTSSLLF SAREWLVRSL
GVCVPVCFG A WGVPMAPLAV PLNVIGRPI KLPRNPEPTD EDVARALDQY IAALRALFDE
NKARFGYADR ELEV C

Figure 7a

GGCACGAGGGGGAGATGGCGGCCGACATCGCCGTACGGCGGAAATCGCCGCGCGCGTACCGTAC
CCGGAGCGTCAAATGTCAGATGTCGAGGCCTGCGCTACTCGACGAGGGCGTCAACCGCTCGTTAT
TCACAGCTCGCAGATCCTCGCCGCCGCGCTCGTACCGCCGCGTCAACCACTTCCAAGATCACCG
TCGCGGACCTCGCCGAGATCTGGCGCTCGTGCAGATCGACGCTGGCGTACCGCGTGCCTGACTGCGGTG
GCCGTGCTGCTCTCGGCTACTACGCTCTCCGCCACCCGCGCCCCGTACTCGTGCACCGCCACGTG
GCAGCTGCGCAGACAAGGACGACGGCAGCCTGAGTGCAGACGAGCGATTCTTCCGCTCGACGATCACGG
ATTGCGGAAATTTCGAGCAGTCGGTCACTCCAGATGAAGCTTTGAGCGAACAGATCTCCAG
CGCTGCTACTTCCACCTGGCATCCGCGCTACCGCAAGGGCGAGCGCAGCTTACTTTGATGGCCGC
CGCGCGCAAGGAGTTCGAGACTGCTCGTCTCACGACCGTGCAGAGCTGCTCGCCAAGACGGCGTAAAGC
CGCGAGATATCGACATCCTCGTCACTGCTCGCTTCAACCCGACGCATCGCTGGCTCGATCGT
ATCAACCACTACCAGATGAAGGACTCCGTACAGAGCTACTCACTTGGCGGGATGGGTTGCTCAGGGGACT
CATCTCAATCCACCTCGCAAAGGACCTGCTGCAGGCTACCCGCGCAAGCGCGCCTGTCATCTCGACGG
AGAACATACGCAAATTTTACAGGGCAACGAAAAGTCGATGCTCATCTGAACACGCTTCCGAATG
GGCGGCGCCGCCGCTCTCCGGCCGCCACGCCGACCGCGCGTCCAGGAGGAGAACAGGGGGGC
CGTCCGCAACGACAAGGGCGGCCACCGGACCGTAACCGGTGCGCTTCCAGGAGGAGAACAGGGGGGC
ACGTGGGCGTGCCTGCAAAGACGTGATGGAGTGCAGCGCCGGCGCGATGAAGACCAACATCTCCGTC
CTCGCGCTCTGATTCTGCCGTTCTGAGCAGGTCCGATTCTCGCAAACACTACGTTGCGCGAAGTGGCT
GCGAATGAAAGGCGTGAAGGGATACTGTGCCGACTTACAACGGCCGTGCAGCACTTTGCATCCACACGG
GCGGGCGCGCGGTGCTCGACGCGCTGCAGCGAACTTGTGCTCTCAGATTACTACCTCGAGCCGAGCGT
TACTCCCTGTGGCGCTGGGTAACGTCAGCGCCTCAGTCTGGTACGAGCTCGACTGGCTCGAAAAGTC
CGGCCGCACTCCGGGGCGACAAGGTGGCAGATTGGGTTGGCAGCGGCTTCAAGTGCACACTGGCCG
TCTGGCGGGCGTGCCGAGCGATGCCCTAGCTACGCCGCGCGTCCGATTGCCAGTGGTGTGACAGAC
AGTCACACTGACGAGTGCAGGTGACGTCTGACGCCCTCCCCCCCCGCCACCACTCCACCTCACCTC
CTTCACCTCACTCAATCGCGGGCGGCCAGAGCAGCGCGCTCGTGCCTCGCCATACCGCCTTGTAGT
CCTCGCGCGCTCGAGCGAGCGCGCGTCCATGAGCGGCACGGACGCGAAGCGGAAGAAGAGCCACATCACA
GCAGAAAAAAAAAAAAACTCGAGACTAGTTCTCTACCGCGCTGCCGAGCTCAAGCACGGCCGC
GTGTGCATGCTGCCGTACCGGCATGCTGTCCAGGAGGTGTACTCGTGGCCGGCACCGACGGCGTCTT
CAAGGCAGGCCGACGCCGCTGGCGCGCTCGACCGTGCAGCGCGTCCATCCAGCTCATCGTCTTCC
TCGGCATCATCGAGGTGCGCTCGCGAACTACCAAGGCCGCGTGCCTGGCACCTTGACCCGCTC
GG

Figure 7b

MAAPTSPTYGA ESPRAAYAYP ERANVKMSEA LRVLDENVHP LVIHSSQILA AALLVTAAVN
HFPKITVADL AEIWRSLQID VAYAFALTAV AVLLLGYYAL RHPRPVVLVD FATWQLRDDK
DDGSLSATSD FFRSTITDCG NFCDESVDQ MKLFERNQIS ERCYFPPGIR AYRKGERDFD
FSMAAARKEF ETVVFTTVDE LLAKTGVKPR DIDILVVNCS LFNPTPSLAA IVINHYQMKD
SVQSYSLGGM GCSAGLISIH LAKDLLQVYP RKRALVISTE NITQNFYQGN EKSMLISNTL
FRMGGAAVLL SGRHADRRVA KYQLLHTVRT HKGADPDAYR CVFQEEDKAG HVGVRLSKDV
MECAGAAMKT NISVLAPLIL PVSEQVRFLA NYVARKWLRM KGKVGYVPDF TTAVQHFCIH
TGGRAVLDAL QANLSLSDY LEPSRYSLWR WGNVSSASVW YELDWLEKSG RIRRGDKVWQ
IGFGSGFKCN SAVWRACRAM P

Figure 7c

GCACGAGGCCCTCGTGCCGAATCGGCACGAGGC GGCGCTGTGGTCGTGG
TACCGACGTACGACGAGTTGTCGATGGGCTTCGTCGACCGCGAG
AAGATCGGCGTGCACATGGTCGACCAGGGCGTGATTACCTCTGCGGAGTG
GGCGGCCATCTCGGTGACAAGCACATGTCCTCTCCGACGCCCG
AGITCACGGGCGACCACTGGATCATCCCGCTCGCGGGCGCACTCTAC
CTCGTATGATCGTCGCGCCAATGATCATGGCCAACCGGCCGCGCT
CCCCGTGAATGGGCTCGCCTGCGCGTGGAACTGGTTCTGGCCGATTCA
GCACTTCGGCGTGGCTTGACGTGGACTGTATCTCACCAAGGCTCGT
AGCCGCGGCTTCGAGAGCACGACGTGCCAGCGCCATGTCATGCGCA
GGGGTACGTTGGCTTGGCAATGCTGCTCTCATCTACTCCAAGCTCTCG
AGTTGATCGACACCTTCTCCTCATCGCAAGAACGGCGATGTGATCTC
CTGCATTGGTACCAACACCGTACCGTCTACTGCTGGCACTCGCA
CTCGGTCCGGATACCGAGCGGGATCTGGTTCGCCGCGATGAACACTTTG
TGCACGCCATCATGTAACCTACTTGCATGACGCAGATGGGTCCGCGC
TACCGCAAGCTCGTCCGGCCGTACGCGCGGCTGATTACGACCCCTGAGAT
CTCGCAGATGTTGTCGCGCCTCATCGTCAACGGCTCGATCATTTACTCA
CGTCGCTCGGGCACGCATGCAAGTCGAGCAAGACGAACACGATCTGAGC
TGGCTGATGTACCTCAGCTACTTGTGCTTCGGACTGCTCTACCTGCG
CAATTACATCCTGGTACACATGGCAAGCCGGGGCAAGCGCGCAAAGG
GCAAGGCGGAATAGTGCAGGGGCCGGGAGGCGGTGCCACCCCGCTCG
CAAAGCGGTCCGCTCTGCCAGATGCGACGAGAGTCGAAGAGGTGAA
ACCTCTTAAAATAATGCTACTCCTAGATTTGCTTGTGCTCCGTAT
AGATGGTCAAGCC

Figure 7b

H E A S C R I R H E A A L W S W L P T Y D E F V D G L S F
V D R E K I G V H M V D Q G V I T S A E W A A I S V D K H
M S F F S D A A E F T G D H W I I P L V A V A L Y L V M I
V V G P M I M A N R P P L P V N G L A C A W N W F L A A F
S T F G V A C T W H C I F T R L R S R G F E S T T C G S A
M F M S Q G Y V G L A M L L F I Y S K L F E L I D T F F L
I A K K A D V I F L H W Y H H V T V L L Y C W H S H S V R
I P S G I W F A A M N Y F V H A I M Y S Y F A M T Q M G P
R Y R K L V R P Y A R L I T T L Q I S Q M F V G L I V N G
S I I Y F T S L G H A C K S S K T N T I L S W L M Y L S Y
F V L F G L L Y L R N Y I L G T H G K P A G K R A K G K A
E